

**AGRICULTURAL NEWS:** Hot weather started to dry out the soil moisture from previous week's rain, however, the crops still look good throughout most of the State. The northeastern portion of the State is still very dry and irrigation is taking place in some areas. Major activities for the week were cutting hay and cultivating and spraying tobacco. Some of the tobacco crop is showing heat stress. Blue mold and black shank has been reported in many areas of the state. **Topsoil moisture** as of Friday, July 9 was rated 18 percent very short, 23 percent short, 56 percent adequate, and 3 percent surplus. **Subsoil moisture** was rated 22 percent very short, 24 percent short, 52 percent adequate, and 2 percent surplus. Days suitable for fieldwork averaged 5.5 out of a possible six days.

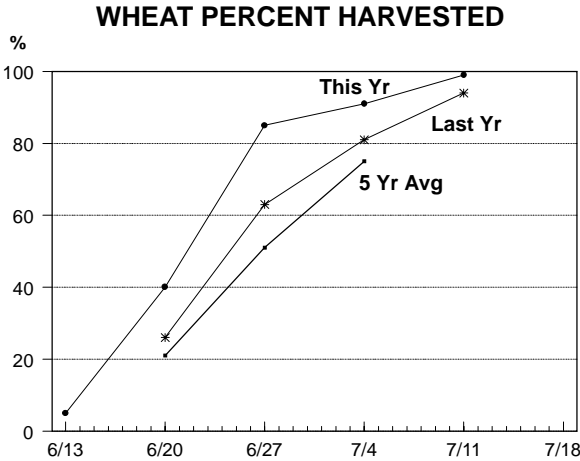
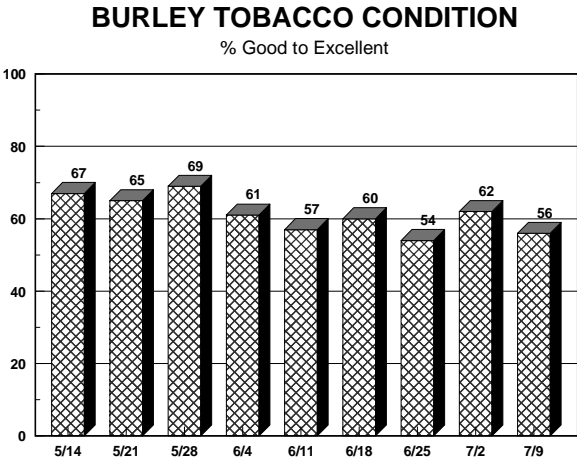
**CORN:** Corn continues to look good, with conditions rated 1 percent very poor, 3 percent poor, 13 percent fair, 56 percent good and 27 percent excellent. Corn was 71 percent silked, well ahead of last year's 39 percent. Japanese beetles continue to be a problem in western areas. Weed growth increased after last week's rain and continue to present a problem for the corn crop.

**SOYBEANS:** The soybean crop continues to look good. Soybeans were 25 percent blooming, ahead of last year's 7 percent. The soybean crop was rated 1 percent very poor, 3 percent poor, 16 percent fair, 50 percent good and 30 percent excellent. In western areas, Japanese beetles were a problem in the soybeans as well as in the corn. Soybeans setting pods were reported at 5 percent.

**TOBACCO:** The heat has caused some problems with tobacco, while some of the crop has drowned out due to excessive rainfall in a few areas. Black shank is the leading problematic disease throughout the State, although scalding and horn worms were problems in several areas. Reports of blue mold continue to increase due to more favorable weather conditions. The tobacco height was 38 percent under 24 inches, 41 percent between 24-36 inches and 21 percent over 36 inches. Condition of the crop as of July 9 was rated 4 percent very poor, 13 percent poor, 27 percent fair, 40 percent good and 16 percent excellent.

**SMALL GRAINS:** **Wheat** harvest is nearly complete with 99 percent combined. The harvest progress is well ahead of last year's 94 percent and the 5 year average of 92 percent. The wheat crop looks good with very good yield and test weights.

**OTHER CROPS:** **Pasture** conditions are still favorable in most of the state. Additional rain is still needed in the northeastern portions to improve the pastures and other crops. Pastures as of July 9 were rated 6 percent very poor, 19 percent poor, 30 percent fair, 37 percent good and 8 percent excellent. In the drier portions of the State farmers are starting to feed livestock hay because of the poor pasture conditions. The **hay** crop looks good for the majority of the State. The hay crop was rated 4 percent very poor, 13 percent poor, 24 percent fair, 48 percent good and 11 percent excellent.



**KENTUCKY CROP PROGRESS**

WEEK ENDING JULY 11, 1999

WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week KY	U.S.
Percentage					
Soybeans Blooming	25	7	11	17	16
Corn Silking	71	39	37	55	7
Wheat Harvested	99	94	92	91	45

(NA) Data Not Available

**SOIL MOISTURE**

WEEK ENDING JULY 9, 1999

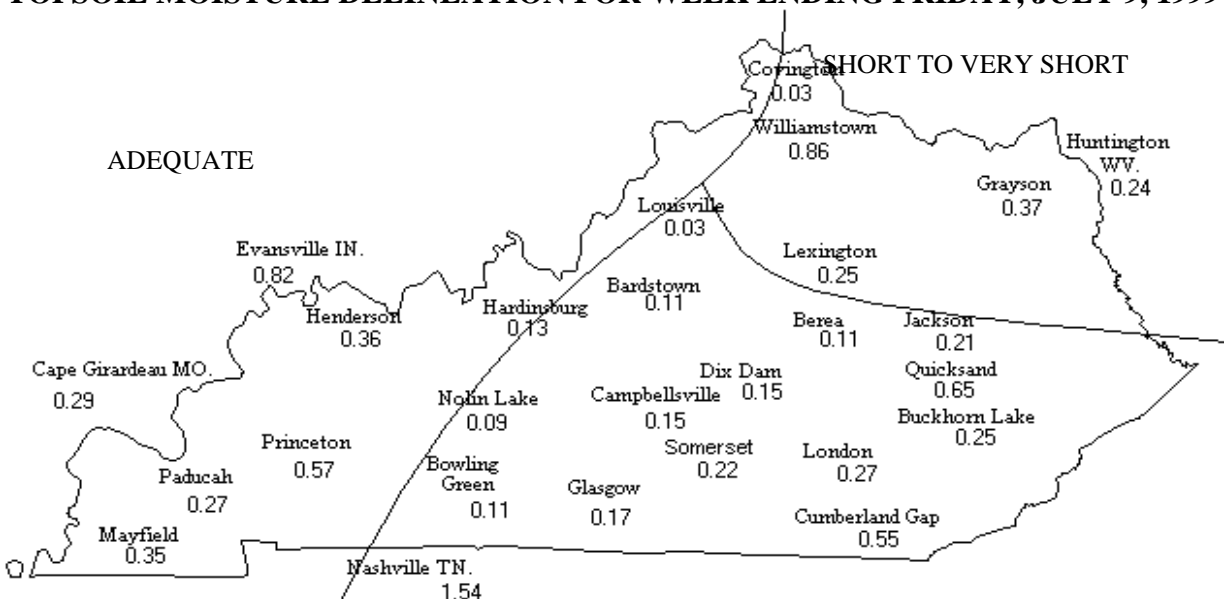
WITH COMPARISONS

	This Week	Previous Week
Percentage		
<b>TOPSOIL</b>		
Very Short	18	7
Short	23	15
Adequate	56	54
Surplus	3	24
<b>SUBSOIL</b>		
Very Short	22	12
Short	24	24
Adequate	52	50
Surplus	2	14

**KENTUCKY CROP CONDITIONS (Percent)**

CROP	WEEK ENDING JULY 9, 1999					WEEK ENDING JULY 2, 1999				
	VERY POOR	POOR	FAIR	GOOD	EXCEL- LENT	VERY POOR	POOR	FAIR	GOOD	EXCEL- LENT
Corn	1	3	13	56	27	1	1	14	52	32
Soybeans	1	3	16	50	30	1	2	16	52	29
Pasture	6	19	30	37	8	4	12	36	40	8
Hay Crops	4	13	24	48	11	0	0	0	0	0
Tobacco	4	13	27	40	16	2	7	29	45	17

**PRECIPITATION MAP FOR WEEK ENDING SUNDAY, JULY 11, 7:00 P.M.**  
**TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, JULY 9, 1999**



ADEQUATE TO SHORT

**KENTUCKY WEATHER SUMMARY, JULY 5 - 11, 1999:**

**ABOVE NORMAL** Temperatures and **BELOW NORMAL** Rainfall:

Very scattered rainfall occurred last week making dry conditions a major concern again, particularly in the Bluegrass and Eastern sections of the state. Temperatures were warm through the workweek with extreme high temperatures in the low 90's but cooler weather returned on the weekend with low temperatures in the 50's. No major storms occurred last week and weather was favorable to advance field activities.

Temperatures for this past week averaged 78 degrees across the state which was 2 degrees **ABOVE NORMAL** and the same temperature for the previous week. High temperatures averaged from 89 in the West to 89 in the East. Departure from normal high temperatures ranged from 1 degrees **BELOW NORMAL** in the West to 3 degrees **ABOVE NORMAL** in the East. Low temperatures averaged from 69 degrees in the West to 67 degrees in the East. Departure from normal low temperature ranged from 2 degrees **ABOVE NORMAL** in the West to 2 degrees **ABOVE NORMAL** in the East. Rainfall for the period totaled 0.28 inches statewide which was -0.77 inches **BELOW NORMAL**. Rainfall totals by climate division, West 0.44 inches, Central 0.11 inches, Bluegrass 0.24 inches and East 0.34 inches, which was -0.48, -1.00, -0.82 and -0.79 inches respectively **BELOW NORMAL**. from normal. By station, precipitation totals ranged from a low of 0.03 inches at Covington to a high of 0.86 inches at Williamstown.

Tom Priddy

**KENTUCKY TEMPERATURES AND RAINFALL**

**FOR WEEK ENDING SUNDAY, JULY 11, 7:00 P.M.**

Weather Station	Rainfall			Deviation From		Air Temperature				Growing Degree Days		
	Last Week	Since April 1	Last Four Wks	Norm Since Apr. 1	Norm Last 4 Wks	High	Low	Wkly. Avg.	Dev. From Norm	Last Week	Since Apr. 1	Dev. Since Apr.1
	(Inches)					(Degrees Fahrenheit)						
Bardstown	0.11	11.90	4.68	-1.88	+0.83	91	61	77.4	+1	182	1801	+112
Berea	0.11	10.76	3.14	-3.83	-0.67	93	57	77.8	+3	176	1830	+99
Bowling Green	0.11	9.96	3.52	-5.15	-0.52	93	60	79.4	+3	192	1952	+191
Bristol	0.86	10.20	4.78	-2.07	+1.24	92	66	77.9	+3	184	1703	+116
Buckhorn Lake	0.25	9.93	3.08	-3.80	-0.99	92	59	77.3	+2	174	1758	+242
Cape Girardeau	0.29	12.25	2.85	-2.10	-0.37	92	60	78.0	+0	181	1869	+25
Campbellsville	0.15	12.77	4.26	-3.23	-0.00	95	60	79.4	+3	188	1873	+172
Covington	0.03	8.40	2.49	-4.97	-1.19	94	56	76.4	+1	173	1650	+112
Cumberland Gap	0.55	10.32	3.73	-4.70	-0.55	92	65	78.4	+3	187	1788	+231
Dix Dam	0.15	10.68	3.95	-3.71	+0.11	92	60	77.4	+2	180	1755	+66
Evansville	0.82	15.34	4.15	+1.65	+0.74	92	60	76.5	-1	174	1790	+48
Glasgow	0.17	11.18	3.63	-4.91	-0.86	96	62	80.9	+5	195	1998	+327
Grayson	0.37	11.80	4.42	-1.65	+0.52	94	52	75.8	+1	164	1777	+322
Hardinsburg	0.13	14.94	4.39	+0.28	+0.55	94	57	78.1	+2	179	1790	+29
Henderson	0.36	15.27	3.87	+1.22	+0.27	91	61	78.3	+1	185	1897	+125
Huntington	0.24	6.06	1.52	-7.25	-2.33	98	58	79.6	+4	182	1792	+224
Jackson	0.21	8.87	2.17	-5.39	-1.86	92	60	77.9	+3	180	1782	+266
Lexington	0.25	9.34	4.42	-4.44	+0.57	91	59	77.3	+2	180	1754	+186
London	0.27	10.41	3.15	-3.08	-0.59	91	60	78.1	+3	185	1774	+217
Louisville	0.03	16.29	7.43	+2.38	+3.87	93	61	78.6	+3	186	1829	+87
Mayfield	0.35	16.38	6.82	+1.36	+3.32	94	62	79.1	+1	188	1890	+68
Nashville	1.54	12.98	4.51	-1.25	+1.08	94	67	80.6	+5	196	2057	+183
Nolin Lake	0.09	13.18	5.59	-2.54	+1.58	93	60	79.1	+3	187	1894	+276
Paducah	0.27	19.13	6.02	+3.64	+2.24	94	62	79.1	+1	188	1918	+85
Princeton	0.57	18.06	7.66	+2.93	+3.96	95	62	80.1	+2	190	2020	+218
Quicksand	0.65	9.24	2.84	-5.02	-1.19	92	57	77.2	+2	176	1755	+239
Somerset	0.22	16.59	4.84	+1.19	+0.70	93	60	78.1	+3	184	1776	+128
Spindletop	0.04	7.42	3.65	-6.36	-0.20	91	58	76.2	+1	173	1714	+146
Williamstown	0.86	7.44	3.34	-6.50	-0.40	95	56	79.3	+4	184	1790	+222

The above information is provided by Tom Priddy, Kentucky Extension Agricultural Meteorologist, University of Kentucky Agr'l Weather Center (606)257-3000 ext 245. E-mail: tpriddy@ca.uky.edu Additional Ky weather data available on Internet at: <http://www.wagwx.ca.uky.edu/>

## APPARENT TEMPERATURE CHART

Rel Humid %	Air Temperature (Degrees Fahrenheit)					
	85	90	95	100	105	110
20	82	87	93	99	105	112
30	84	90	96	104	113	123
40	86	93	101	110	123	137
50	88	96	107	120	135	150
60	90	100	114	132	149	
70	93	106	124	144		
80	97	113	130			
90	102	122				
100	108					

CATEGORY	APPARENT TEMP	HEAT SYMPTOMS
I	> 130 degrees	Heatstroke imminent
II	105 to 130 degrees	Sunstroke likely, heatstroke possible
III	90 to 105 degrees	Sunstroke possible
IV	80 to 90 degrees	Fatigue possible

### HOW TO USE THE “APPARENT TEMPERATURE” CHART

If the outside air temperature was currently 100 degrees (F) and relative humidity was currently 50%, the apparent temperature would be 120 degrees (see chart). This means the outside temperature would feel like it was 120 degrees. Under these conditions sunstroke would be likely and heatstroke possible if exposure is prolonged. Keep in mind that the actual degree of heat stress experienced will vary with individual age, health, and body characteristics.